

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A biosignal intensity measuring method, ~~wherein output comprising:~~

~~_____ outputting signals from a noninvasive sensor, which detects biosignals from a lying subject, subject;~~

~~_____ are amplified-amplifying and attenuated-attenuating the biosignals with respect to noises other than the biosignals via a signal amplifying/shaping means, and said biosignals are means;~~

~~_____ controlled-controlling the biosignals by an automatic gain control (AGC) means to have sizes within a prescribed range, range; and~~

~~_____ then outputting parameters acquired by signal gains in a control circuit upon carrying out automatic gain control are output as the output signal intensity of said the controlled signals-biosignals to calculate biosignal intensity.~~

2. (Currently Amended) The biosignal intensity measuring method according to ~~Claim 1, claim 1,~~ wherein the signal amplifying/shaping means has an amplifying characteristic that reduces ~~the-a~~ signal level of heartbeat signals and pulse signals in a bandwidth other than the main bandwidth of the ~~signals-biosignals.~~

3. (Currently Amended) The biosignal intensity measuring method according to ~~Claim 1, claim 1,~~ wherein the signal amplifying/shaping means has a band-pass filter that reduces ~~the-a~~ signal level of heartbeat signals and pulse signals in a bandwidth other than the main bandwidth of the ~~signals-biosignals.~~

4. (Currently Amended) The biosignal intensity measuring method according to ~~Claim 1, claim 1,~~ wherein when the size of output from the noninvasive sensor exceeds a

prescribed range for more than a certain time, ~~a judgment is made that judging~~ a subject is making body motion.

5. (Currently Amended) A bedding state ~~monitoring-judging~~ method, wherein ~~output comprising:~~

~~_____ outputting~~ signals from a noninvasive sensor, which detects biosignals from a lying subject, ~~are subject;~~

~~_____ amplified-amplifying and attenuated-attenuating the biosignals~~ with respect to the noises other than the biosignals via a signal amplifying/shaping means, ~~means; and said~~

~~_____ controlling the~~ biosignals ~~are controlled by~~ an automatic gain control (AGC) means to acquire sizes within a prescribed range, ~~and range;~~

~~_____ calculating the parameters-parameters,~~ acquired by signal gains in a control circuit upon carrying out automatic gain ~~control-are calculated-control,~~ as the output signal intensity of ~~said-the~~ controlled signals, ~~then signals; and~~

~~_____ using the~~ calculated signal intensity ~~is used to~~ monitor the bedding state of the subject, ~~such as-including one or more of~~ a state of being in or out of bed, ~~of-weakening or~~ stoppage of biosignals, ~~of-and making body motion, or the like-motion.~~

6. (Currently Amended) The bedding state ~~monitoring-judging~~ method according to ~~Claim 5, claim 5,~~ wherein the signal amplifying/shaping means has ~~the-an~~ amplifying characteristic that reduces ~~the-a~~ signal level of heartbeat signals and pulse signals in a bandwidth other than the main bandwidth of the ~~signals-biosignals.~~

7. (Currently Amended) The bedding state ~~monitoring-judging~~ method according to ~~Claim 5, claim 5,~~ wherein the signal amplifying/shaping means has ~~the-a~~ band-pass filter that reduces ~~the-a~~ signal level of heartbeat signals and pulse signals in a bandwidth other than the main bandwidth of the ~~signals-biosignals.~~

8. (Currently Amended) A bedding state monitoring ~~devicee-device,~~ comprising:

_____ a noninvasive sensor that detects biosignals from and body motion of a lying subject;

_____ a signal amplifying/shaping means that attenuates the noises other than the biosignals included in the output signals from the noninvasive sensor;

_____ a non-bedding detecting sensor for confirming the subject's being out of bed;

_____ ~~the~~ automatic gain control (AGC) means that controls signals given by eliminating ~~enviromental~~ noises from ~~the~~ output signals from the noninvasive sensor via ~~said the enviromental filter~~ signal amplifying/shaping means so as to have sizes within a prescribed range;

_____ a signal intensity calculating means that calculates ~~the~~ parameters acquired by signal gains in the control circuit upon carrying out automatic gain control as ~~the~~ an output signal intensity of said controlled signals; and

_____ a bedding state judging means that makes a judgment ~~on~~ about the subject's being in or out of ~~bed, bed and a~~ weakening or stoppage of biosignals, or the like, biosignals using a plurality of ~~the~~ intensity signals or parameters calculated from ~~a~~ the plurality of the intensity signals.

9. (Currently Amended) The bedding state monitoring device according to ~~Claim 8, claim 8,~~ wherein the signal amplifying/shaping means has ~~the~~ an amplifying characteristic that reduces the intensity level of heartbeat signals and pulse signals in a bandwidth other than ~~the~~ a main bandwidth of the signals.

10. (Currently Amended) The bedding state monitoring device according to ~~Claim 8, claim 8,~~ wherein the signal amplifying/shaping means has ~~the~~ a band-pass filter that reduces ~~the~~ an intensity level of heartbeat signals and pulse signals in a bandwidth other than ~~the~~ a main bandwidth of the signals.

11. (Currently Amended) The bedding state monitoring device according to ~~Claim 8, said device~~ claim 8, further comprising a body motion detecting means that detects body motion from the output of the noninvasive sensor, wherein the bedding state judging means monitors the occurrence of the body motion using output from the body motion detecting means.

12. (Currently Amended) The bedding state monitoring device according to ~~Claim 11, claim 11~~, wherein the body motion detecting means judges that a subject is making body motion when ~~the~~ a size of output from the noninvasive sensor exceeds a prescribed range for more than a certain time.

13. (Currently Amended) The bedding state monitoring device according to ~~Claim 8, claim 8~~, wherein the noninvasive sensor comprises a capacitor microphone for detecting micropressure, and a hollow, elastic tube or a hollow, elastic tube with an inserted core wire thinner than a hollowed part of the tube, the tube being connected to the microphone.

14. (Currently Amended) The bedding state monitoring device according to ~~Claim 8, claim 8~~, wherein the non-bedding detecting sensor is a sensor for detecting weight.

15. (Currently Amended) The bedding state monitoring device according to ~~Claim 8, claim 8~~, wherein the non-bedding detecting sensor is an infrared sensor.

16. (New) A patient status sensing device, comprising:
a pressure detecting element;
a signal amplifying/shaping section, that removes noise from an output of the pressure detecting element;
a gain control section that processes an output of the signal amplifying/shaping section;
a body motion detecting calculating section;

a status judgment section that determines patient status based on inputs from the signal amplifying/shaping section, the body motion detecting calculating section, and the gain control section.

17. (New) The patient sensing device according to claim 16, further comprising an alarm device connected to the status judgment section.

18. (New) The patient sensing device according to claim 16, further comprising an out-of-bed detecting sensor that provides another input into the status judgment section.

19. (New) The patient sensing device according to claim 16, wherein the pressure detecting element comprises an elongated tube having a closed end at an end and a differential pressure sensor at the other end of the elongated tube.

20. (New) The patient sensing device according to claim 19, wherein the elongated tube is arranged in a serpentine pattern between a patient and a surface upon which the patient lies.